000-0272/A

25 May 1959

MEMORALIZAM FOR THE RECORD:

SUBJECT: "Follow-On" Evaluation Criteria

1. Based on:

(a) Numo for Record, dated 25 May 1959, subject "Pollow-On Operational Considerations;"

The criteria listed below is forwarded for use in the evaluation of a "Pollow-On" vehicle.

- 2. (a) <u>Speeds</u> Highest possible, consistent with altitude, range, weight, availability and cost. Minimum acceptable M-1.85 desired M-3.
 - (b) Renge: 9,500 N. M. is desired. Minimum acceptable is 5,600 N. M.
 - (c) Altitude: Minimum ecceptable at the beginning of the period (1960) is 90,000 feet. Growth potential to provide 120,000 feet at the end of the period (1963-5) is desired.
 - (d) Employment: Ability to operate from one Z. I. base is desired. Recovery at a USAF controlled oversees base or on an aircraft carrier is permissible providing the capability to empeditionally dismustle the vehicle is available. The ability to farry the dismustled vehicle in an existing and available cargo type of sircraft is required.
 - (a) Reder Demunity: Every effort should be made to provide immunity from reder detection at all altitudes. Insbility to obtain desired results should not be cause for cancellation or delay.

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- (g) Numerorability: The vehicle must be capable of accomplish-
- ing area photographic coverage and parform evenive action.
- (h) Num Around Time: After a 24-hour alert, the ability to perform a mission on a 1256 and 4-hour basis is required. An approximate 2-3 hour turn around time is desired.
- (1) System Availability: Primary mission espabilities including ground data reduction equipment should be available and ready for

operational use during the sireraft test phase. Qualitative characteristics of the end results should be consistent with the job to be done, equal to and/or better than that of CHALICE.

(j) Psylond Provisions: Provisions for a 500 lb. psylond and space of approximately 4' x 4' x 25' is required. Every effort should be made to incorporate provisions to insure rapid interpretation, dissumination and storage of collected data.

(k) Navigation System:

- (1) A salf-contained subsettle inertial navigation device is required which will provide continuous position fixing at all altitudes. It is desired that the navigation system provide present position, time and heading to points ensemble, and nadir point location. Radir point location, accurate within one degree of the vertical, is desired, providing it does not add significant complexity to the system.
- (2) In order to geographically position, identify, and correlate the various types of reconnaiseance information collected, an extensite indexing equivility synchronized and correlated with the navigational system is required.
- (1) <u>Fatigue</u>: All known factors contributing to fatigue should be elequately provided for in order to allow the pilot to devote full attention to primary mission ecomplishment.
- (m) Secure System: A capsule type cockpit is desired. Minimum acceptable is a full pressure, high altitude suit arrangement with a tumble free ejection sect.
- (n) <u>logistics</u>: Should consider the following: maintenance, ground headling characteristics and equipment, sortic rate, in commission rate, type fuel, personal equipment, hanger space, cargo space, shility to disperse and/or deploy for staging, spare parts and/or replacement, and attrition rate.

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Colonal, USAF Chief, Operations Branch, DPD

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